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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/585,571	06/02/2000	Takamasa Kotake	2469-107A	6602	
6449	6449 7590 04/22/2004		EXAMINER .		
ROTHWELL, FIGG, ERNST & MANBECK, P.C. 1425 K STREET, N.W.			BOAKYE, ALEXANDER O		
SUITE 800	,		ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20005			2667	7	
	•		DATE MAILED: 04/22/2004	, ,	

Please find below and/or attached an Office communication concerning this application or proceeding.

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· •	Application No.	Applicant(s)				
	09/585,571	KOTAKE, TAKAMASA				
Office Action Summary	Examiner	Art Unit				
	Alexander Boakye	2667				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 02 Ju	ıne 2000.					
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3) Since this application is in condition for allowar	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
 4) Claim(s) 1-13 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1 is/are rejected. 7) Claim(s) 2-13 is/are objected to. 8) Claim(s) are subject to restriction and/or 	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the output of of	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa					

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Application/Control Number: 09/585,571

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Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Haagh et al. (US Patent # 5,151,920) in view of Stein et al. (US Patent # 5,291,517).

Regarding claim 1, Haagh teaches a spread spectrum demodulator (115, Fig. 5; the claimed spread spectrum demodulator is contained at the receiver end) for demodulating a plurality of received spread spectrum signals, comprising: a timing detector for receiving amplitude components of the plurality of received spread spectrum signals (column 5, lines 1-6; the symbol clock recovery circuit block 190,Fig.5 corresponds to the claimed timing detector), the amplitude components being produced by de-spreading and then polar-coordinates converting the spreading spectrum signals (column 5, lines 15-21; block 185 of Fig. 5 is for polar-coordinates converting the spreading spectrum signals), establishing initial synchronization individually for the spread spectrum signals by detecting maximum values of the amplitude components(column 5, lines 58-63).

Furthermore, Haagh teaches a plurality of frequency components of the respective spread spectrum signals (column 5, lines 64- 68) the frequency components being produced by de-spreading and then polar-coordinates converting the spread

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spectrum signals (column 5, lines 15-21; column 5, lines 64-68;). Haagh differs from the claimed invention in that Haagh does not disclose a plurality of correctors.

However, Stein teaches a plurality of correctors (see Fig. 3; column 3, lines 20-24).

One of ordinary skill would have been motivated to incorporate a plurality of correctors into the receiver portion of Stein in order to be able to reconstruct the source signal. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate a plurality of correctors such as the one taught by Stein into the receiver portion of Haagh with the motivation being that it provides proper synchronization, thus enhancing efficiency.

Allowable Subject Matter

2. Claims 2-13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander Boakye whose telephone number is (703) 308-9554. The examiner can normally be reached on M-F from 8:30am to 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, CHI Pham, can be reached on (703) 305-4378. The fax number for the group is (703) 872-9306. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is (703) 305-4750.

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Alexander Boakye

Patent Examiner AB 4/15/04

CHI PHAM

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600 4/19/04

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